## IN THE CLAIMS:

1. (Previously presented) A method, in a data processing system, of registering services in a taxonomy, comprising:

receiving a registration request at the data processing system, the registration request including a service description and an identification of a category within the taxonomy in which the service is to be registered;

determining if the service description should be registered in the identified category based on a canonical service description associated with the category;

registering the service description in the identified category using the data processing system if the determination is that the service description should be registered in the identified category; and

if it is determined that the service description should not be registered in the category, determining whether a request to add a new category is received.

- 2. (Original) The method of claim 1, wherein the canonical service description identifies minimum criteria for the category.
- 3. (Original) The method of claim 1, wherein registering the service description in the category includes storing the service description and an associated model description in a storage in association with the category.
- 4. (Original) The method of claim 1, wherein the method is implemented in a service broker within at least one network.

## 5. (Canceled)

6. (Previously presented) The method of claim 1, wherein if a request to add a new category is received, a determination is made as to whether to add the new category, and wherein if the new category is added, the service description is registered in association with the new category.

- 7. (Original) The method of claim 1, wherein the canonical service description includes information identifying minimum requirements of the category regarding one or more of security requirements, privacy requirements and communication protocol requirements.
- 8. (Original) The method of claim 1, wherein if it is determined that the service description should not be registered in the category, the method further comprises:

searching the taxonomy for an alternate category in which the service description should be registered; and

registering the service description in the alternate category.

- 9. (Original) The method of claim 8, wherein searching the taxonomy for an alternate category includes searching one or more of sibling, parent and child categories of the identified category within a predetermined range of the identified category in the taxonomy.
- 10. (Original) The method of claim 8, wherein searching the taxonomy for an alternate category includes searching the taxonomy for a category in which the service description meets requirements of a canonical service description associated with the alternate category.
- 11. (Currently amended) A computer program product in a computer readable medium for registering services in a taxonomy, comprising:

first instructions for receiving a registration request, the registration request including a service description and an identification of a category within the taxonomy in which the service is to be registered;

second instructions for determining if the service description should be registered in the identified category based on a canonical service description associated with the category; and

third instructions for registering the service description in the identified category if the determination is that the service description should be registered in the identified category; and

fourth instructions for determining whether a request to add a new category is received if it is determined that the service description should not be registered in the category.

- 12. (Original) The computer program product of claim 11, wherein the canonical service description identifies minimum criteria for the category.
- 13. (Original) The computer program product of claim 11, wherein the third instructions for registering the service description in the category includes instructions for storing the service description and an associated model description in a storage in association with the category.
- 14. (Original) The computer program product of claim 11, wherein the computer program product is executed in a service broker within at least one network.

## 15. (Canceled)

- 16. (Currently amended) The computer program product of claim [[15]] 11, further comprising fifth instructions for determining whether to add the new category, if a request to add a new category is received, and sixth instructions for registering the service description in association with the new category, if the new category is added.
- 17. (Original) The computer program product of claim 11, wherein the canonical service description includes information identifying minimum requirements of the category regarding one or more of security requirements, privacy requirements and communication protocol requirements.

18. (Currently amended) The computer program product of claim 11, further comprising:

fourth <u>fifth</u> instructions for searching the taxonomy for an alternate category in which the service description should be registered if the result of execution of the second instructions is that the service description should not be registered in the category; and

fifth <u>sixth</u> instructions for registering the service description in the alternate category if an alternate category is identified by execution of the fourth instructions.

- 19. (Currently amended) The computer program product of claim 18, wherein the fourth fifth instructions for searching the taxonomy for an alternate category includes instructions for searching one or more of sibling, parent and child categories of the identified category within a predetermined range of the identified category in the taxonomy.
- 20. (Currently amended) The computer program product of claim 18, wherein the fourth fifth instructions for searching the taxonomy for an alternate category includes instructions for searching the taxonomy for a category in which the service description meets requirements of a canonical service description associated with the alternate category.
- 21. (Currently amended) An apparatus for registering services in a taxonomy, comprising:

means for receiving a registration request, the registration request including a service description and an identification of a category within the taxonomy in which the service is to be registered;

means for determining if the service description should be registered in the identified category based on a canonical service description associated with the category; and means for registering the service description in the identified category if the determination is that the service description should be registered in the identified category; and means for determining whether a request to add a new category is received if it is determined that the service description should not be registered in the category.

- 22. (Original) The apparatus of claim 21, wherein the canonical service description identifies minimum criteria for the category.
- 23. (Original) The apparatus of claim 21, wherein the means for registering the service description in the category includes means for storing the service description and an associated model description in a storage in association with the category.
- 24. (Original) The apparatus of claim 21, wherein the apparatus is part of a service broker within at least one network.
  - 25. (Canceled)
- 26. (Currently amended) The apparatus of claim [[25]] <u>21</u>, further comprising means for determining whether to add the new category, if a request to add a new category is received, and means for registering the service description in association with the new category, if the new category is added.
- 27. (Original) The apparatus of claim 21, wherein the canonical service description includes information identifying minimum requirements of the category regarding one or more of security requirements, privacy requirements and communication protocol requirements.
  - 28. (Original) The apparatus of claim 21, further comprising:

means for searching the taxonomy for an alternate category in which the service description should be registered if the means for determining indicates that the service description should not be registered in the category; and

means for registering the service description in the alternate category if an alternate category is identified by the means for searching.

- 29. (Original) The apparatus of claim 28, wherein the means for searching the taxonomy for an alternate category includes means for searching one or more of sibling, parent and child categories of the identified category within a predetermined range of the identified category in the taxonomy.
- 30. (Original) The apparatus of claim 28, wherein the means for searching the taxonomy for an alternate category includes means for searching the taxonomy for a category in which the service description meets requirements of a canonical service description associated with the alternate category.
  - 31. (Canceled)